

ATMOSPHERE SESSIONS AT THE JANUARY MODIS ST MEETING.

**Agenda**

**MODIS Atmosphere Group Meeting  
Radisson Lord Baltimore**

**January 5, 2006; Baltimore, MD**

**Morning Session, Wednesday, January 5, 9:00 am - 12:00 pm**

“Review of Agenda & Expected Outcome of Meeting” 9:00 am  
Michael King, Goddard Space Flight Center

**Cloud Mask**

“What is a Cloud According to MODIS” 9:15 am  
Steve Ackerman, CIMSS, University of Wisconsin

**Cloud Radiative and Microphysical Properties**

“Aerosol Radiative Forcing from Combined MODIS and CERES  
Measurements” 9:30 am  
Sundar A. Christopher and Jianglong Zhang, University of Alabama  
Yoram Kaufman and Lorraine Remer, Goddard Space Flight Center

“Influence of Trans-Pacific Pollution on Cloud Microphysical  
Properties” 9:45 am  
Harshvardhan and Robert Green, Purdue University, and  
Mian Chin, Goddard Space Flight Center

Break 10:00 am

“Properties of Tropical Ice Clouds: Analyses Based on Terra/Aqua  
Measurements” 10:30 am  
Ping Yang, Gang Hong, Kerry Meyer, Gerald North, Andrew Dessler,  
Texas A&M University  
Bo-Cai Gao, Naval Research Laboratory, and  
Bryan Baum, NASA Langley Research Center & CIMSS

“MODIS Observed Land Impacts on Clouds, Water Vapor, and  
Rainfall at Continental Scales” 10:45 am  
Menglin Jin, University of Maryland-College Park, and  
Michael King, Goddard Space Flight Center

“3D Cloud Structure and Retrievals of Droplet Sizes” 11:00 am  
Alexander Marshak, Steven Platnick, Robert Cahalan, GSFC, and  
Tamas Várnai and Guoyong Wen, UMBC, GSFC

<p>“Dilemmas in Comparing Observations and Calculations” Richard Frey, CIMSS, University of Wisconsin</p>	11:15 am
<p><b>Surface Reflectance</b></p>	
<p>“MERIS Surface Albedos from Data Fusion with MODIS BRDFs and Data Dissemination using DDS and OGC” Jan-Peter Muller, University College London, Carsten Brockmann, Marco Zühlke, Norman Fomferra, Brockmann Consult, GKSS, Hamburg, Jürgen Fischer, René Preusker, Thomas Schröder, Freie Universität Berlin, and Peter Regner, ESRIN, Frascati, Italy</p>	11:30 am
<p><b>Ground-based Measurements and Validation</b></p>	
<p>“Ground-based Measurements of Surface Reflectivity and Emissivity over Desert Regions” Si-Chee Tsay and N. Christina Hsu, Goddard Space Flight Center, Q. Jack Ji, Richard Hansell, and Myeong-Jay Jeong, UMCP, GSFC</p>	11:45 am
<p>Lunch</p>	12:00 pm
<p><b>Afternoon Session, Wednesday, January 5, 1:30 pm - 5:00 pm</b></p>	
<p><b>Aerosol Optical Properties</b></p>	
<p>“Towards a Global Aerosol Climatology using MODIS Observations” Lorraine Remer, Yoram Kaufman, Rich Kleidman, Rob Levy, Shana Mattoo, Charles Ichoku, Vanderlei Martins, and Allen Chu, GSFC Didier Tanré, Université des Sciences et Technologies de Lille Rong-Rong Li, Naval Research Laboratory, and Ilan Koren, Weizmann Institute of Science</p>	1:30 pm
<p>“The Effect of Smoke, Dust, and Pollution Aerosol on Cloud Cover and Height Derived from MODIS” Yoram Kaufman and Lorraine Remer, Goddard Space Flight Center Ilan Koren and Yinon Rudich, Weizmann Institute of Science Daniel Rosenfeld, Hebrew University of Jerusalem</p>	1:45 pm
<p>“Characterization of Aerosols using Airborne Lidar and MODIS” Richard Ferrare, Edward Browell, and Sayed Ismail, NASA Langley Research Center Yoram Kaufman, Goddard Space Flight Center Vince Brackett, Carolyn Butler, Marion Clayton, and Marta Fenn, Science Applications International Corp. (SAIC), LaRC, and Jean-François Léon, Laboratoire d’Optique Atmosphérique, CNRS</p>	2:00 pm

<p>“Impact of 3D Clouds on Aerosol Retrievals”  Guoyong Wen, University of Maryland-Baltimore County, and  Alexander Marshak and Robert Cahalan, Goddard Space Flight Center</p>	2:15 pm
<p>“Simultaneous Retrieval of Aerosols and Marine Parameters in”  Coastal Waters using Classical Inverse Methods”  Knut Stamnes, Wei Li, Kexin Zhang, Hans Eide. Matteo Ottaviani,  Stevens Institute of Technology, Robert Spurr, RT Solutions Inc.,  Wenyong Su, Langley Research Center, Warren Wiscombe, GSFC, and  Jacob Stamnes, University of Bergen</p>	2:30 pm
<p>“Simultaneous Retrieval of Aerosol and Surface Properties from a  Combination of AERONET and Satellite Data (MODIS/MISR/POLDER)”  Oleg Dubovik, Alexander Sinyuk, Brent Holben, Tom Eck, GSFC  François-Marie Bréon, LSCE/CEA, France  John Martonchik, Jet Propulsion Laboratory  Eric Vermote and Jean-Claude Roger, University of Maryland-College Park  Ilya Slutsker, Science Systems and Applications (SSAI)</p>	2:45 pm
<p>Break</p>	3:00 pm
<p>“Principal Component Analysis of the Evolution of the Saharan Air  Layer and the Transport of Dust: Comparisons between MODIS  Retrievals and a CARMA Simulation”  Sun Wong and Andrew Dessler, Texas A&amp;M University  Peter Colarco, Goddard Space Flight Center</p>	3:30 pm
<p><b>Data Use, Assimilation &amp; Interdisciplinary Science Investigations</b></p>	
<p>“Polar Winds from Satellite Imagers and Sounders”  Jeff Key, NOAA/NESDIS, University of Wisconsin, and  David Santek, and Chris Velden, CIMSS, University of Wisconsin</p>	3:45 pm
<p>“Using MODIS and AIRS for Cloud Property Characterization”  Jun Li, CIMSS, University of Wisconsin</p>	4:00 pm
<p>“Using the MODIS Fire Count Data as an Interim Solution for  Estimating Biomass Burning Emissions of Aerosols and Trace Gases  in the GOCART Model”  Mian Chin, Goddard Space Flight Center  Tom Kucsera, Louis Giglio, Science Systems &amp; Applications (SSAI), and  Thomas Diehl, University of Maryland-Baltimore County</p>	4:15 pm
<p><b>Level-3 Gridded Atmosphere Products</b></p>	
<p>“Level-3 Gridded Atmosphere Products: Updates for Collection 5”  Paul Hubanks, Science, Systems and Applications, Inc.</p>	4:30 pm

**MODIS Atmosphere Web Site**

“MODIS Atmosphere Web Site: Overview, New Features, & Metrics” 4:45 pm  
Paul Hubanks, Science, Systems and Applications, Inc.

Adjourn 5:00 pm